

Use of the Plot Functionality of the DataMaster DMT

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The DataMaster DMT measures and records the values for both the alcohol concentration and breath flow rate of each subject sample over time. During the breath sample portion of the subject breath test, the signals for flow rate and detector circuit output are measured every ½ second. These measurements are stored as individual data points. At the users discretion, these data points can be used to plot the breath test on the display of the DMT or on a printed report or both.

The data is recorded for plotting purposes up to the point that the sample is accepted (in the case of a valid breath sample). The final breath test concentration value as stored and printed on the subject test report (the evidential result) is a measurement taken by the DMT after all the sample acceptance parameters have met the requirements of the DMT software and the sample chamber has been sealed closed by activating the valve assembly. These final result measurements do not appear on any plot.

The 5-way valve is activated to isolate the sample chamber and to allow the measurement while the sample is static within the sample chamber.

The plot function of the DMT is intended to be a tool for qualitative evaluation of the breath sample. It can give an indication as to the time of continuous exhalation above the minimum flow threshold, the relative force of the exhalation as indicated by the flow rate and the relative characteristic of the increase (or decrease) of the alcohol concentration over time, among other things.

The plot does not have sufficient resolution nor is it intended to be a visual representation of the subject's alcohol concentration by looking at a level of the curve. The only reference to a value would be the graduation of the y-axis if it is present. There is no way to estimate an accurate value by way of a visual inspection of the curve.